I claim:

1. An improved field motion detector which does not treat low frequency vertical transitions as motion.

2. A frame motion detector having an improved ability to differentiate motion from subcarrier signal components.

3. A sawtooth artifact detector.

4. A sawtooth artifact detector in combination with a film pattern detector, such that the artifact detector can take the film pattern detector out of film mode earlier than it would if it only were responsive to a break in the film pattern.

5. Tandem field motion detectors.

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6. An improved field based film detector, the detector having a greater immunity to false motion detection resulting from vertical transitions.

7. Film pattern detectors and motion detectors used therewith which operate by performing end-of-field calculations.

8. The combination of a field motion detector and a frame motion detector such that the frame motion detector provides a motion signal used as a verification by the field motion detector.

9. An improved NTSC film detector requiring a minimum number of NTSC film ~~pattern sequences~~.

10. An improved PAL film detector employing a minimum motion threshold detector. A

11. A line doubler (interlaced to progressive scan converter).

Add A2